



Basics of Conformity Assessment

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Objectives

You will be able to:

- identify a variety of types of conformity assessment
- list international standards for conformity assessment
- describe the relationship among parties involved in a conformity assessment system

Today's Discussion

- Terminology
- Types of Conformity Assessment
- How it Works
- Examples

Conformity Assessment

"demonstration that specified requirements relating to a product, process, system, person, or body are fulfilled"

- ISO/IEC 17000

The Parties – who done it?

1st Party 2nd Party 3rd Party

First Party A seller or manufacturer

Second Party A purchaser or user

Third Party An independent entity that has no

interest in transactions between the

first and second parties

Government Has a unique role in regulation, but

is the second party in procurement

application of standards

Types of Conformity Assessment

1st Party 2nd Party 3rd Party

- Supplier's Declaration of Conformity (SDoC)
- Inspection
- Testing
- Certification
- Registration
- Accreditation

- ISO/IEC 17050 parts 1 and 2
- ISO/IEC 17020
- ISO/IEC 17025
- ISO/IEC 17065
- ISO/IEC 17021
- ISO/IEC 17011

Supplier's Declaration of Conformity (SDoC)

1st Party

2nd Party

3rd Party

Characteristics

Examples

- Used when low product risk
- Penalties for noncompliant products
- Effective recall system



- ISO/IEC 17050

Inspection

1st Party 2nd Party 3rd Party

Characteristics

- Simple test measurement or examination
- Code compliance
- ISO/IEC 17020





Testing

1st Party
2nd Party
3rd Party

Characteristics

- Characteristics are measured
- Representative samples are often used
- May be used in a SDoC or certification system
- ISO/IEC 17025



Certification

1st Party 2nd Party 3rd Party

Characteristics

- moderate high product risk
- Generally, more expensive
- Surveillance

















Management System Registration

1st Party 2nd Party 3rd Party

Characteristics

Requirements are Process requirements

- Scopes can be general or specific
 - ISO/IEC 17021





Accreditation

1st Party 2nd Party 3rd Party

Characteristics

Examples

- Formal demonstration of competence
- Confidence for purchasers, regulators and consumers

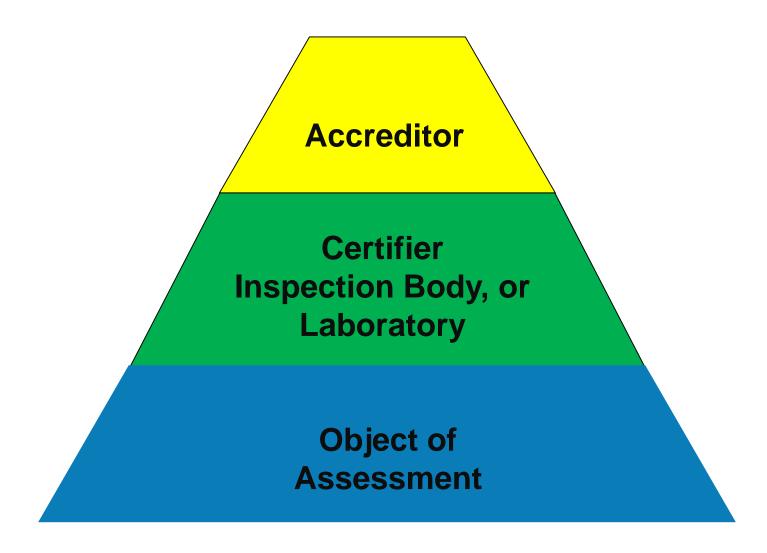




- ISO/IEC 17011



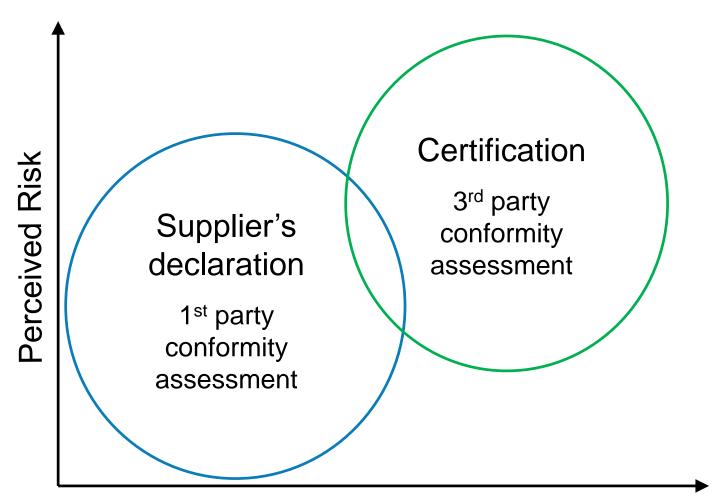
Who watches the watchers?



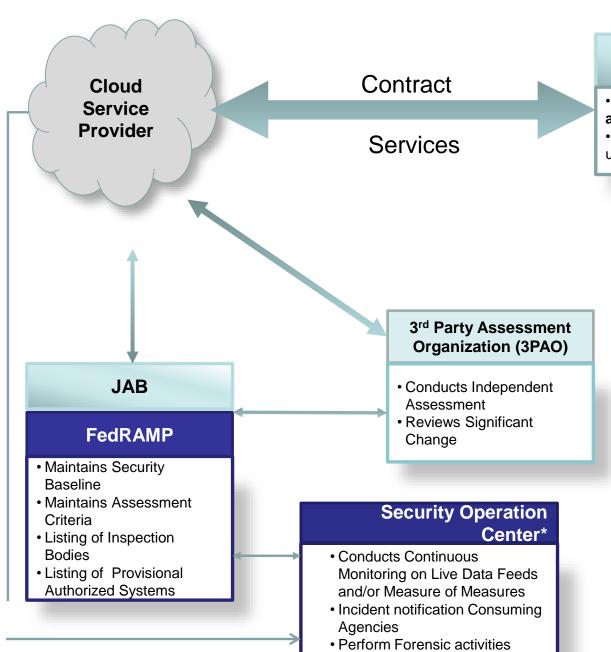
Factors in Conformity Assessment Systems

- Risks associated with non-compliance should be proportional to the rigor of the system design
 - Over-design costs too much
 - Under-design gives too little confidence
- Marketplace consequences (penalties) & effective recall allow less rigor

How much confidence is needed?



Independence and Rigor of Conformity Assessment



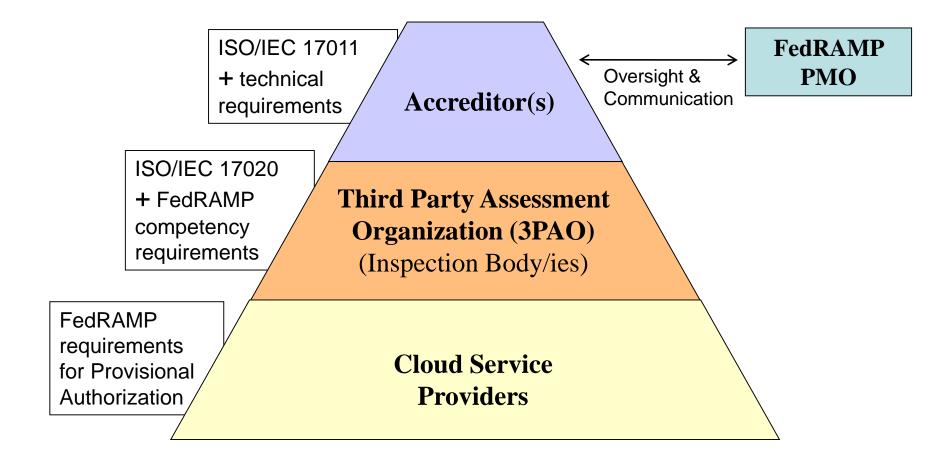


- Leverage the **provisional** authorization
- Authorize agency's system for use





FedRAMP 3PAO Hierarchy



ISO/IEC 17011; Conformity assessment -- General requirements for accreditation bodies accrediting conformity assessment bodies ISO/IEC 17020; General criteria for the operation of various types of bodies performing inspection

Review

- Terminology
- Types of conformity assessment
- How it works
- Examples

Thank You

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